INDEPENDENCE MALL WEST PHILADELPHIA, PA. 19105, U.S.A. TELEPHONE (215) 592-3000 CAÈLE ADDRESS: ROHMHAAS TELEX 645-247

REPCY TO: ENVIRONMENTAL CONTROL DEPARTMENT BOX 584 BRISTOL, PA. 19007 12:15) 785-7000

135323



January 15, 1976

Mr. James V. Donato, Chief Facilities Section Harrisburg Regional Office Department of Environmental Resources Room 1002 Health and Welfare Building Harrisburg, PA 17120

Dear Mr. Donato:

Re: Industrial Wastes Application No. 3975202
Whitmoyer Laboratories, Jackson Township, Lebanon County

Thank you for your letter of December 31. We are glad to know that the 5°F rise above ambient will be allowed in Whitmoyer's permit. On receipt of the permit, we shall establish the new No. 10 monitoring point as described in my letter of December 23. A minimum of a daily reading of the No. 5 and No. 10 temperatures will be made when the plant is discharging cooling water.

The following will confirm our telephone conversation of January 14, 1976.

In reply to point No. 4 of your letter, we do not expect to exceed a 5°F rise between Station No. 10 and Station No. 5 at any time with the cooling water discharging directly to the canal. Accordingly, we are not providing any means of reducing the temperature of the cooling water before it is discharged. You agreed that, under this condition, no changes are required on Module 27-2.

For No. 5 of your letter, I enclose a new Module 27-1, with Item A-2 corrected and an attachment describing the operation as an answer to Item A-4. You agreed this should be sufficient under the circumstances.

For your No. 6, I enclose a corrected Module 4-1, also with an attachment as we agreed. The values on Module 4-2 are correct as you have them.

We discussed sampling the effluent for arsenic. This is being done routinely as required by our NPDES permit: once per month on an eight-hour composite. Whitmoyer also takes samples once a month from the Tuipehocken Creek at four places between their plant and the Schuylkill River, plus two samples

from the Schuylkill. There is a long record of this information available which shows that the Tulpehocken stays well below the 0.05 mg/l required for drinking water from Womelsdorf on downstream.

i trust that you now have all the information you need to issue this discharge permit.

Very truly yours,

Quare G. Club

Duane G. Clarke

DGC: aem

cc: Mr. Paul Weber - DRBC

Mr. Frantz Dengler - Whitmoyer Laboratories

bec: Mr. N. M. Huffman

Mr. F. C. Moesel

Mr. S. S. Palst

No Fr R: Robertson .

File (2)

March 18, 1975

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL RESOURCES WATER QUALITY MANAGEMENT

WATER POLLUTION CONTROL MODULE 27 - HEATED WASTES

•			 _
Fer	Department Use	Only	

Jan. 15, 1976	MODULE 27	- HEATED WASTES	For Departme	nt Use Only
A. GENERAL INFOR	MOITAN			·
1. NAME OF REC	EIVING Stream Lake Entury	Tulpehocken Cr	eek	
2. AT THE POINT	OF DISCHARGE, WHAT WA) MAXIMUM OF 58° F (Tro	TER TEMPERATURE CRIT	ERION APPLIES:] (dg) MAXIMUM OF 8	6° F (Delaware Estuary)
□ (d ₂) MAXIMUM OF 87°F	C		4° F FEB. 15 TO JULY 31, F, (Trout stocking stream)
raised more	PERATURE OF THE STREA THAN 5 DEGREES FAHREN It may be more restrictive at IG	HEIT BY THE HEATED DI		Yes No variable
	VASTE WATER ABOVE THE re, no further information requ		E TO BE REJECTED TO	THE STREAM IS <u>See att</u> e
5. AT THE POINT	OF DISCHARGE:			
A. THE MINIMU	JM 7-DAY, ONGE-IN-10-YEA	R FLOW IS	efs (See Medule 2, Pag	ye 6) · · · · · · · · · · · · · · · · · ·
S. THE STREAM	M WIDTH AT THAT FLOW IS	FEET.		
G. THE AVERA	GE STREAM DEPTH AT TH	AT FLOW IS	FEET.	
6. AT THE ABOVE	DESCRIBED MINIMUM FLO	O W :	•	
A. THE AVERA	GE STREAM TEMPERATUR	E AT THE POINT OF DISC	HARGE ISDEG	REES FAHRENHEIT.
(Specify sour	ce of this value)			
	w will absorb Able temperature crit	=	TS TEMPERATURE TO 1	BE RAISED TO:
	orbing capacity of the at a time other than t) TEMPERATURE MAY BE
A. THE MAXIM	U M STREAM TEMPERATUR	IE OF RECORD IS	_DEGRESS FAHRENH	EIT.
S. AT THIS TE	MPERATURE, THE FLOW W	AS etc.		
	SE CONDITIONS, THE STRE JRE TO SE RAISED TO THE			
	een items 5 and 6 above Temperature known to	•	G CAPACITY IS LESS, O	R OTHER COMBINATION
FLOW	efs. TEMP	Degrees Fahrenheit.	HEAT ASSORBING C	APACITYSTU/HR.
9. AT THE MOST	CRITICAL CONDITION, THE	TEMPERATURE OF WAST	ES AND THE RECEIVIN	IG STREAM, AFTER
COMPLETE MIX	ing, will se	OEGREES FAHRENHE	IT.	
10. PROVIDE SKET	CH OF MIXING ZONE WITH	IIN WHICH THE ALLOWAR	LE TEMPERATURE WIL	L BE EXCEEDED.
A. THE ESTIMA	TED LENGTH OF MIXING	ZONE REQUIRED TO ACH	EVE COMPLETE MINN	1100246
. S. THE WIDTH	OF THE MIXING ZONE WIL	L SEFEET.	Ψ.	
G. IF DISCHAR	GE IS EXISTING, PROVIDE	ACTUAL TEMPERATURE	DATA.	

Industrial Wastes Application No. 3975202
Whitmoyer Laboratories
Jackson Township
Lebanon County, PA

Attachment to Module 27-1 see letter of James V. Donato, P.E., to D. G. Clarke, December 31, 1975.

A.4. Heat in the wastewater above the temperature criterion checked in Item 2 is variable and intermittant. The following range was measured in 1975:

Minimum 6944 BTU/hr. Average 49468 BTU/hr. Maximum 177,330 BTU/hr.

it is quite possible that Whitmoyer Laboratories may install a process which will produce more heat than this. However, there is no expectation that the stream temperature will be increased more than 5°F at monitoring point No. 5, with the ambient measured at point No. 10.

Mr. Donato stated in a telephone conversation that, in view of the *variable nature of the discharge, it will not be necessary to complete Module 27-1 beyond Item A-4 and this attachment.

ER710.048.4 DATE PREPARED 5-5-75

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL RESOURCES WATER QUALITY MANAGEMENT .

WATER POLITION CONTROL

For	Department	Use	Only	

DAT	Č,	EVISED			WATER POLLOT	OH CONTINGE		<u>. </u>	
8-26-75 1/15/76					•	For Department Use	For Department Use Only		
			MO	DU	LE 4 - WASTE LOAD	AND CHARACTERISTI	cs		
TAB	LE	i – Waste Statu	S R	EPO	RT	. 40-40-41			
TOT	AL	WASTE FLOW (MC	30)		SOURCE OF WASTE:	SOURCE OF WASTE:	SOURCE OF WASTE:	SOURCE OF WASTE	
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2.	Т				WOOD			· · · · · · · · · · · · · · · · · · ·	
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FLOW	L .	MGD (MAXIMUM))		.72				
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WASTE DISCHANGE	L								
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		•			•	B. SUSPENDED SOLIDS	Affected	d 🙀 🗂 🦠	
							Not		
				_		C. SETTLEABLE SOLIDS		d * 🖺	
				•		(SEWAGE ONLY)			

Industrial Wastes Application No. 3875202 Whitmoyer Laboratories Jackson Township Lebanon County, PA

Attachment to Module 4-1 see letter of James V. Donato, P.E., to D. G. Clarke, December 31, 1975.

The total waste flow will be variable and intermittent, depending upon demand. The minimum of 0.0345 MGD and maximum of 0.72 MGD given on Module 4-1 are from 1975 operation. There is a distinct possibility that Whitmoyer Laboratories may discharge more cooling water on a variable and intermittent basis during the life of the permit. There is no expectation, however, that the heat content will be sufficient to increase the creek temperature by more than 5°F.